Performance Data Sheet

VSA9521ZXT

General Information

Model	VSA9521ZXT	**Refrigerant**	R-404A
Test Condition	ARI	**Performance Test Voltage**	220V 3~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
20	Btu/h	25100	23400	21600	19900	18100	16300	14600
	Watts	1820	2080	2330	2600	2860	3130	3400
	Amps	10.2	10.6	11.0	11.4	11.8	12.2	12.6
	Lb/h	390	389	387	386	385	383	382
25	Btu/h	27700	25800	23900	22000	20000	18100	16100
	Watts	1820	2080	2350	2620	2890	3160	3440
	Amps	10.2	10.6	11.0	11.4	11.8	12.3	12.7
	Lb/h	434	432	431	430	428	427	426
30	Btu/h	30400	28300	26300	24200	22100	19900	17800
	Watts	1820	2090	2360	2630	2910	3190	3480
	Amps	10.2	10.6	11.0	11.4	11.9	12.3	12.8
	Lb/h	481	480	478	477	476	474	473
35	Btu/h	33300	31000	28800	26500	24300	22000	19700
	Watts	1820	2090	2370	2650	2930	3220	3510
	Amps	10.2	10.6	11.1	11.5	11.9	12.4	12.8
	Lb/h	532	531	529	528	526	525	523
40	Btu/h	36300	33900	31500	29000	26600	24100	21600
	Watts	1820	2100	2380	2670	2950	3250	3540
	Amps	10.3	10.7	11.1	11.5	12.0	12.5	12.9
	Lb/h	586	585	584	582	581	579	577
45	Btu/h	39500	36900	34300	31700	29100	26400	23800
	Watts	1820	2110	2390	2680	2980	3270	3570
	Amps	10.3	10.8	11.2	11.6	12.1	12.6	13.0
	Lb/h	645	643	641	640	638	637	635
50	Btu/h	42900	40100	37300	34500	31700	28900	26100
	Watts	1830	2120	2410	2710	3000	3310	3610
	Amps	10.4	10.9	11.3	11.7	12.2	12.7	13.2
	Lb/h	706	705	703	701	700	698	696

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.437013E+04	-1.421322E+01	7.718671E+00	2.599982E+02
C2	6.623303E+02	-8.632031E+00	-2.243656E-02	5.614637E+00

C3	-1.035774E+02	2.257479E+01	3.122441E-02	-1.302616E-01
C4	2.968765E+00	-9.876429E-02	-1.450436E-04	6.978142E-02
C5	-3.456017E+00	1.595890E-01	3.483395E-04	9.232387E-06
C6	4.115424E-02	-6.474195E-03	-2.607473E-05	1.288105E-04
C7	1.426413E-03	1.988539E-03	7.732609E-06	4.255702E-05
C8	-1.665573E-03	-8.677806E-04	-3.267054E-06	-2.568910E-05
C9	3.885651E-04	4.798544E-05	1.555967E-07	3.505480E-06
C10	-3.452369E-04	5.857015E-05	2.357262E-07	-1.028799E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

VSA9521ZXT

General Information

Model	VSA9521ZXT	**Refrigerant**	R-404A
Test Condition	ARI	**Performance Test Voltage**	220V 3~ 50HZ
Return Gas	4.4°C (40°F) RETURN GAS	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
0	Btu/h	15500	14400	13400	12300	11300	10200	9180
	Watts	1760	1990	2220	2460	2700	2940	3190
	Amps	10.2	10.5	10.9	11.2	11.5	11.9	12.3
	Lb/h	265	263	261	259	257	255	252
5	Btu/h	17500	16200	15000	13700	12500	11200	9990
	Watts	1780	2020	2260	2500	2740	2990	3250
	Amps	10.2	10.6	10.9	11.3	11.6	12.0	12.4
	Lb/h	297	295	294	292	290	288	285
10	Btu/h	19600	18200	16700	15200	13800	12300	10900
	Watts	1800	2040	2280	2530	2780	3030	3290
	Amps	10.3	10.6	11.0	11.3	11.7	12.1	12.5
	Lb/h	332	331	329	328	326	324	322
15	Btu/h	22000	20300	18600	16900	15200	13600	11900
	Watts	1820	2060	2310	2560	2810	3070	3330
	Amps	10.3	10.6	11.0	11.4	11.7	12.1	12.5
	Lb/h	371	370	369	368	366	365	363
20	Btu/h	24500	22600	20700	18800	16900	15000	13100
	Watts	1840	2080	2330	2590	2840	3100	3370
	Amps	10.3	10.7	11.0	11.4	11.8	12.2	12.6
	Lb/h	414	413	412	411	410	408	407
25	Btu/h	27200	25100	22900	20800	18700	16600	14500
	Watts	1860	2110	2360	2620	2870	3140	3410
	Amps	10.4	10.7	11.1	11.4	11.8	12.2	12.6
	Lb/h	459	459	458	457	457	456	454
30	Btu/h	30200	27800	25500	23100	20800	18400	16100
	Watts	1890	2140	2400	2650	2910	3180	3450
	Amps	10.5	10.8	11.2	11.5	11.9	12.3	12.7
	Lb/h	508	508	508	507	507	506	505

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.406450E+04	-5.410418E+01	7.700323E+00	2.799689E+02
C2	7.138064E+02	-2.897979E+00	-8.868179E-03	5.591558E+00

C3	-1.075964E+02	2.281680E+01	3.166389E-02	-1.883847E-01
C4	3.374941E+00	-7.404942E-02	-1.316499E-04	7.259956E-02
C5	-4.109783E+00	1.071765E-01	2.247482E-04	4.585062E-03
C6	-3.716044E-03	-8.558214E-03	-2.474593E-05	2.965370E-04
C7	3.738049E-02	5.177869E-03	1.689071E-05	-1.198814E-04
C8	-1.407570E-02	-1.575306E-03	-5.193627E-06	2.717939E-05
C9	8.077585E-04	3.046156E-05	1.109904E-07	1.191863E-06
C10	9.233128E-05	7.953200E-05	2.331475E-07	-2.644766E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

VSA9521ZXT

General Information

Model	VSA9521ZXT	**Refrigerant**	R-404A
Test Condition	ARI	**Performance Test Voltage**	230V 3~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
0	Btu/h	19600	18100	16600	15100	13600	12100	10500
	Watts	1830	2090	2360	2630	2900	3170	3450
	Amps	7.20	7.74	8.28	8.83	9.38	9.94	10.5
	Lb/h	327	323	320	316	313	309	306
5	Btu/h	22000	20300	18600	16800	15100	13400	11600
	Watts	1860	2130	2400	2680	2960	3250	3530
	Amps	7.29	7.84	8.39	8.95	9.51	10.1	10.7
	Lb/h	366	362	359	355	351	347	343
10	Btu/h	24500	22600	20700	18700	16800	14800	12900
	Watts	1880	2160	2440	2730	3020	3310	3610
	Amps	7.36	7.92	8.48	9.05	9.63	10.2	10.8
	Lb/h	410	406	402	398	394	390	385
15	Btu/h	27200	25100	23000	20800	18600	16500	14300
	Watts	1890	2190	2480	2770	3070	3370	3680
	Amps	7.41	7.98	8.56	9.13	9.72	10.3	10.9
	Lb/h	460	456	451	447	442	437	433
20	Btu/h	30200	27800	25400	23100	20700	18300	15900
	Watts	1910	2210	2510	2810	3120	3430	3750
	Amps	7.46	8.04	8.62	9.21	9.80	10.4	11.0
	Lb/h	516	511	506	501	496	491	485
25	Btu/h	33300	30800	28200	25600	22900	20300	17700
	Watts	1920	2230	2540	2850	3170	3480	3810
	Amps	7.50	8.09	8.67	9.27	9.87	10.5	11.1
	Lb/h	578	572	567	561	555	550	544
30	Btu/h	36800	33900	31100	28300	25400	22600	19700
	Watts	1930	2250	2570	2890	3210	3540	3870
	Amps	7.54	8.13	8.73	9.33	9.94	10.6	11.2
	Lb/h	647	641	634	628	622	615	609

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.140296E+04	-2.515113E+02	2.958935E+00	3.538113E+02
C2	7.961568E+02	-8.905508E+00	2.196995E-03	7.783568E+00

C3	-1.489876E+02	2.621526E+01	5.343683E-02	-3.526495E-01
C4	3.618001E+00	-1.385242E-01	-3.675796E-04	1.024685E-01
C5	-4.241229E+00	1.949436E-01	2.290553E-04	-4.678679E-03
C6	4.143045E-02	-8.671879E-03	-1.835724E-05	3.279622E-04
C7	2.663199E-02	2.413311E-03	5.970575E-06	6.183856E-04
C8	-7.497356E-03	-4.494537E-04	-1.359854E-06	-1.522035E-04
C9	1.089457E-04	-3.021721E-05	-3.664277E-08	-1.049441E-06
C10	-2.991903E-04	7.359985E-05	1.588030E-07	-1.901017E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

VSA9521ZXT

General Information

Model	VSA9521ZXT	**Refrigerant**	R-404A
Test Condition	ARI	**Performance Test Voltage**	230V 3~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
20	Btu/h	30500	28300	26100	23900	21600	19400	17100
	Watts	1870	2190	2500	2810	3130	3450	3770
	Amps	7.29	7.94	8.58	9.23	9.89	10.6	11.2
	Lb/h	477	473	468	464	459	454	449
25	Btu/h	33600	31200	28800	26400	23900	21400	18900
	Watts	1870	2190	2520	2850	3180	3510	3850
	Amps	7.26	7.93	8.61	9.30	9.99	10.7	11.4
	Lb/h	532	527	523	518	513	508	502
30	Btu/h	37000	34300	31700	29100	26400	23700	21000
	Watts	1850	2190	2530	2880	3220	3570	3920
	Amps	7.21	7.91	8.62	9.34	10.1	10.8	11.5
	Lb/h	592	587	582	577	572	566	561
35	Btu/h	40500	37700	34800	32000	29100	26200	23300
	Watts	1810	2170	2530	2890	3250	3610	3980
	Amps	7.12	7.86	8.61	9.36	10.1	10.9	11.7
	Lb/h	658	653	648	642	636	631	624
40	Btu/h	44300	41200	38200	35100	32100	28900	25800
	Watts	1760	2130	2510	2880	3260	3640	4020
	Amps	7.01	7.79	8.56	9.35	10.1	10.9	11.7
	Lb/h	731	725	719	713	707	701	694
45	Btu/h	48300	45100	41800	38500	35200	31900	28600
	Watts	1680	2070	2460	2860	3250	3650	4050
	Amps	6.87	7.68	8.49	9.31	10.1	11.0	11.8
	Lb/h	809	803	797	790	784	777	770
50	Btu/h	52600	49100	45700	42200	38700	35100	31600
	Watts	1570	1980	2400	2810	3220	3640	4050
	Amps	6.69	7.53	8.38	9.23	10.1	11.0	11.8
	Lb/h	895	888	881	874	867	859	852

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.119433E+04	-2.537164E+02	3.143836E+00	3.374763E+02
C2	7.627306E+02	-1.490577E+01	-3.897672E-02	6.581201E+00

C3	-1.411579E+02	2.626209E+01	5.210029E-02	-3.764321E-01
C4	3.613304E+00	-8.333134E-02	-2.899689E-04	9.555040E-02
C5	-3.883645E+00	2.339554E-01	5.843920E-04	-9.820263E-04
C6	6.834408E-02	-7.804883E-03	-2.553703E-05	6.926219E-04
C7	1.559235E-02	-4.104093E-03	-3.975714E-06	3.515229E-04
C8	-5.640258E-03	1.515799E-03	1.541003E-06	-1.162624E-04
C9	2.787935E-04	-7.185876E-05	-1.108451E-07	2.837456E-06
C10	-5.274106E-04	5.489173E-05	2.016678E-07	-4.954823E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature